

Data File : VU036031.D
Acq On : 06 Dec 2019 18:34
Operator : JC/SP
Sample : K6168-06
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
BFE40

Quant Time: Dec 06 22:37:37 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR120319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 06 22:30:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	287225	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	305618	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	88494	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	110939	3.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	67.80%
7) Chloroethane-d5	1.93	69	122153	4.65	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.00%
11) 1,1-Dichloroethene-d2	2.60	63	340603	7.24	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	144.80%#
20) 2-Butanone-d5	4.68	46	279977	48.29	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.58%
24) Chloroform-d	5.11	84	202814	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.20%
26) 1,2-Dichloroethane-d4	5.75	65	111026	4.66	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.20%
32) Benzene-d6	5.77	84	388123	4.29	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	85.80%
36) 1,2-Dichloropropane-d6	6.73	67	123384	4.21	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	84.20%
41) Toluene-d8	7.93	98	324107	3.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.80%
43) trans-1,3-Dichloropropene-	8.21	79	43769	3.70	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	74.00%
46) 2-Hexanone-d5	8.67	63	253146	54.37	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.74%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	111566	4.53	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.60%
64) 1,2-Dichlorobenzene-d4	12.22	152	93414	5.11	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

					Qvalue
3) Chloromethane	1.54	50	8011	0.236	ug/L 86
6) Bromomethane	1.87	94	2144	0.109	ug/L 85
9) Trichlorofluoromethane	2.16	101	13039	0.324	ug/L 89
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	209699	9.499	ug/L 92
12) 1,1-Dichloroethene	2.61	96	423674	20.582	ug/L # 68
13) Acetone	2.66	43	6179	1.179	ug/L 94
16) Methylene chloride	3.08	84	3414	0.107	ug/L 94
17) Methyl tert-butyl Ether	3.41	73	146068	3.029	ug/L 98
18) trans-1,2-Dichloroethene	3.39	96	5100	0.234	ug/L 86
19) 1,1-Dichloroethane	3.92	63	176358	4.139	ug/L 96
22) cis-1,2-Dichloroethene	4.72	96	854239	37.096	ug/L 89
25) Chloroform	5.14	83	40696	0.947	ug/L 98
27) 1,2-Dichloroethane	5.84	62	9754	0.355	ug/L # 93
29) 1,1,1-Trichloroethane	5.36	97	132540	3.586	ug/L 98
31) Carbon tetrachloride	5.36	117	18692	0.570	ug/L 100
33) Benzene	5.82	78	17720	0.184	ug/L 100
34) Trichloroethene	6.58	95	5811247	239.105	ug/L 95

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU120619\
Quantitation Report (Not Reviewed)

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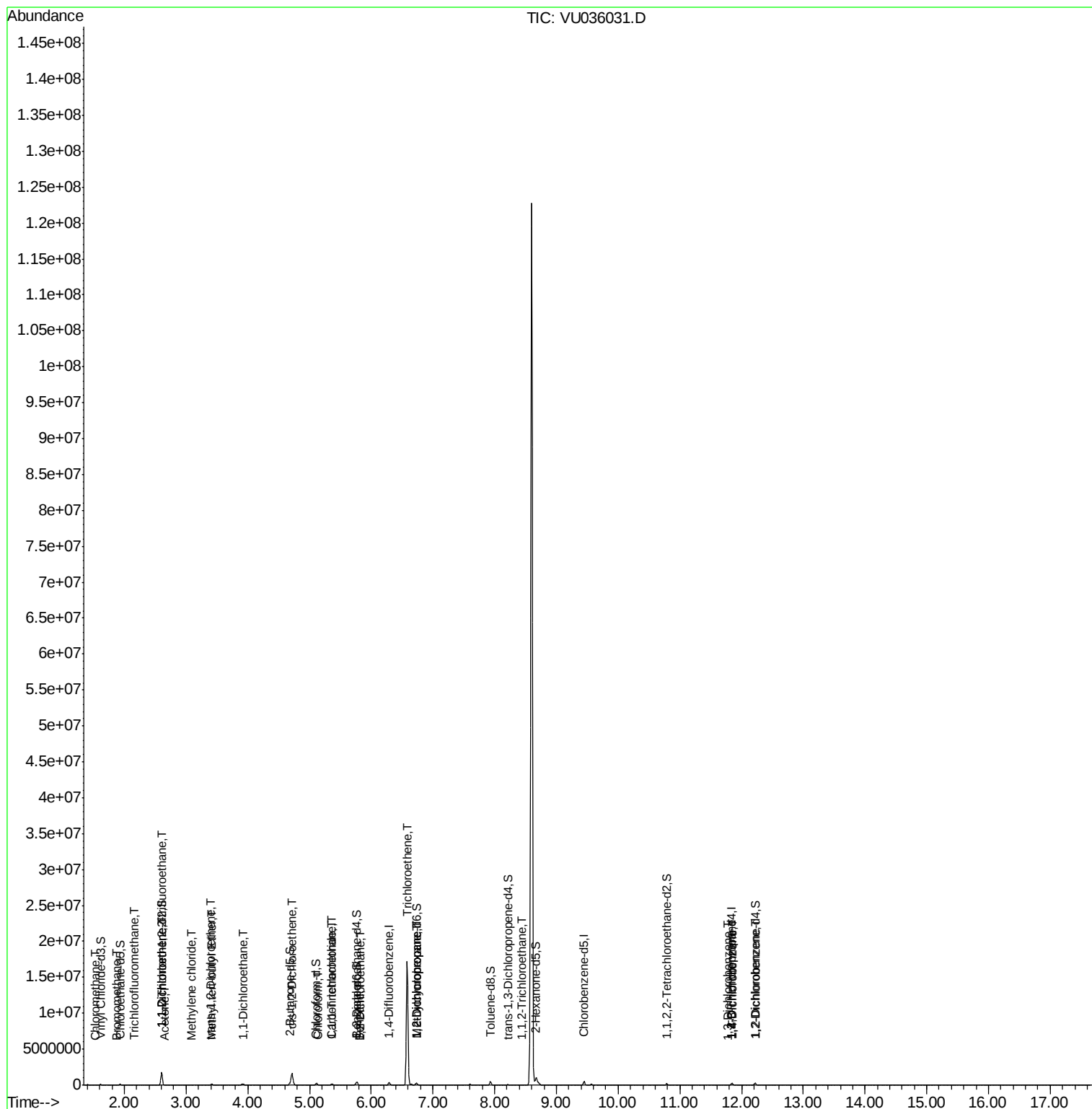
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) Methylcyclohexane	6.73	83	29729	0.816	ug/L #	16
37) 1,2-Dichloropropane	6.73	63	12557	0.483	ug/L #	90
45) 1,1,2-Trichloroethane	8.44	97	13818	0.780	ug/L	95
59) 1,2,3-Trichloropropane	11.84	75	10499	0.621	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	1833	0.062	ug/L #	75
63) 1,4-Dichlorobenzene	11.86	146	3562	0.122	ug/L	90
65) 1,2-Dichlorobenzene	12.24	146	2893	0.103	ug/L #	86

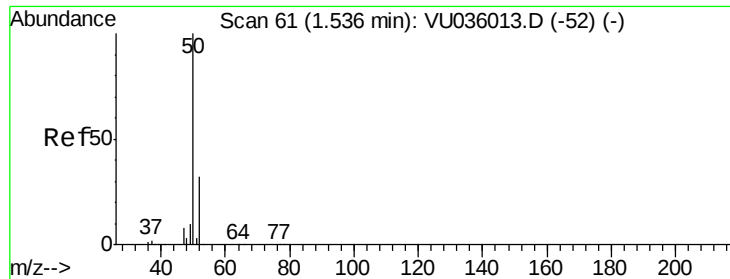
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.236 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

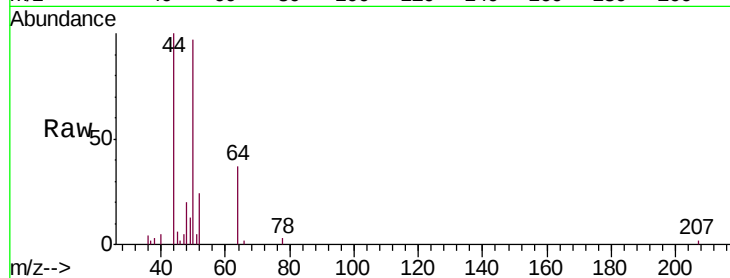
BFE40

Tgt Ion: 50 Resp: 8011

Ion Ratio Lower Upper

50 100

52 25.1 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036031.D (-52) (-)

Ion 52.05 (51.75 to 52.75): VU036031.D (-52) (-)

1.54

6000

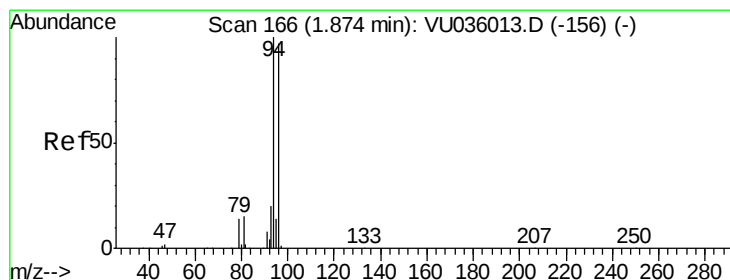
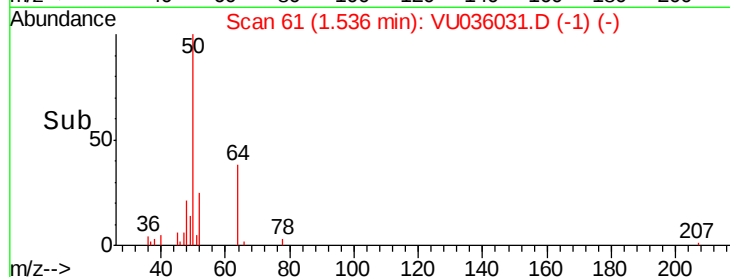
4000

2000

0

1.50 1.55 1.60

Time-->



#6

Bromomethane

Concen: 0.109 ug/L

RT: 1.87 min Scan# 164

Delta R.T. -0.01 min

Lab File: VU036031.D

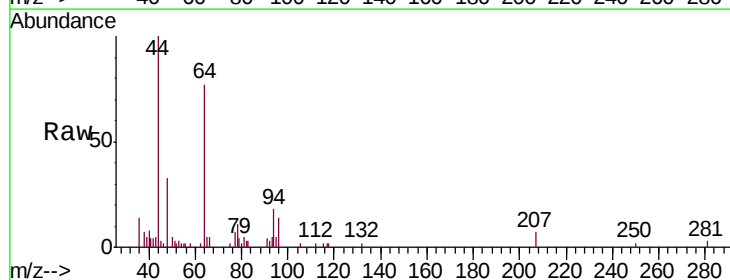
Acq: 06 Dec 2019 18:34

Tgt Ion: 94 Resp: 2144

Ion Ratio Lower Upper

94 100

96 81.2 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU036031.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU036031.D (-156) (-)

1.87

1200

1000

800

600

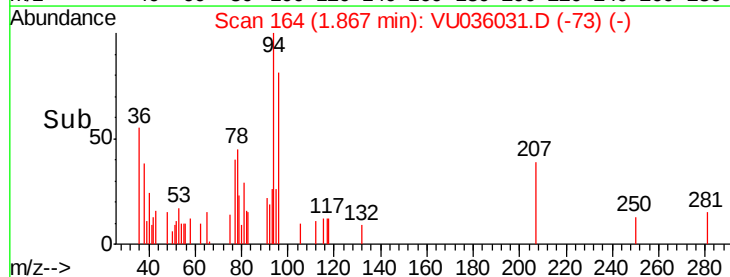
400

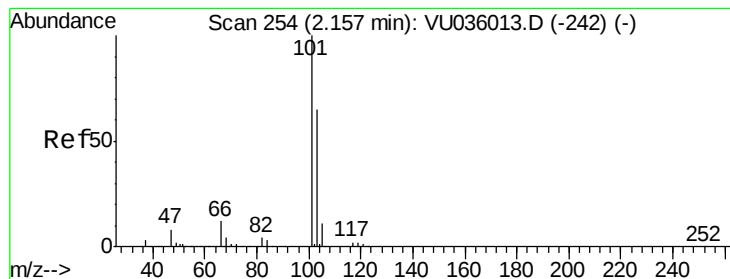
200

0

1.80 1.85 1.90

Time-->



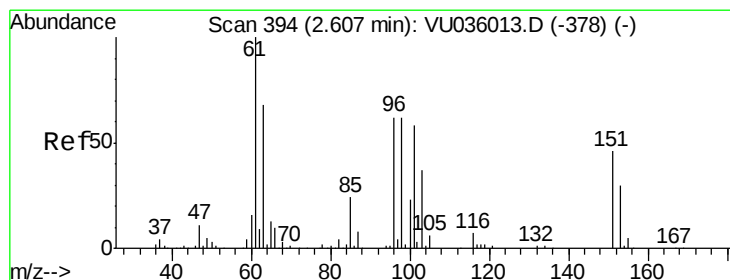
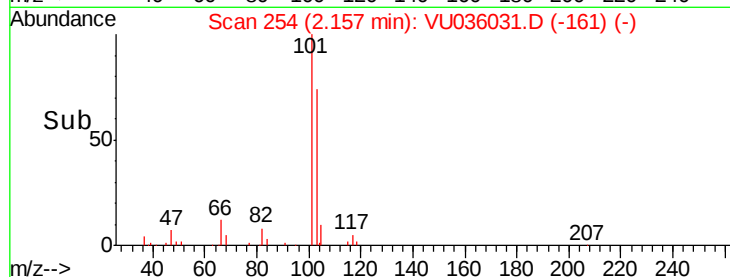
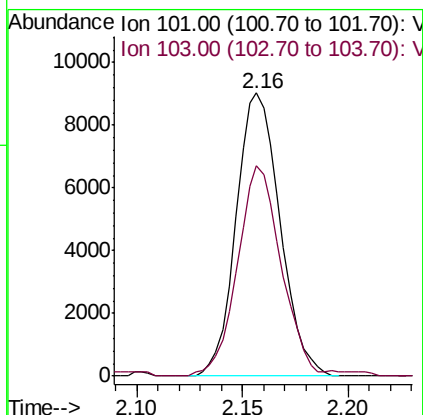
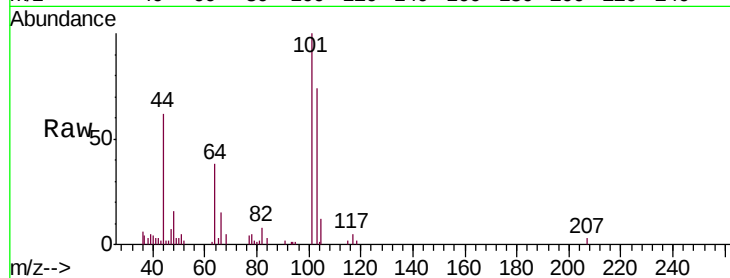


#9

Trichlorofluoromethane
 Concen: 0.324 ug/L
 RT: 2.16 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Instrument :
 MSVOA_U
 ClientSampleId :
 BFE40

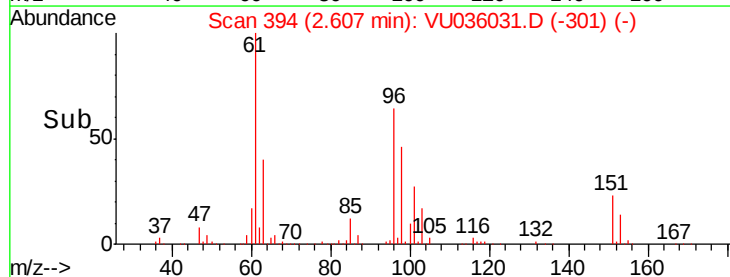
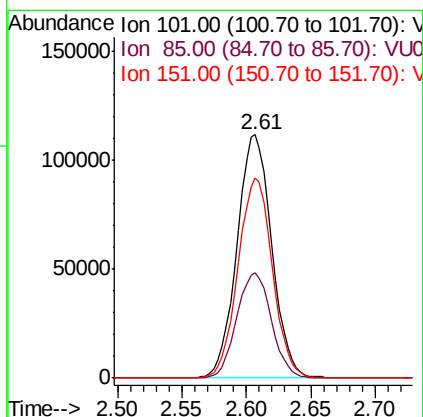
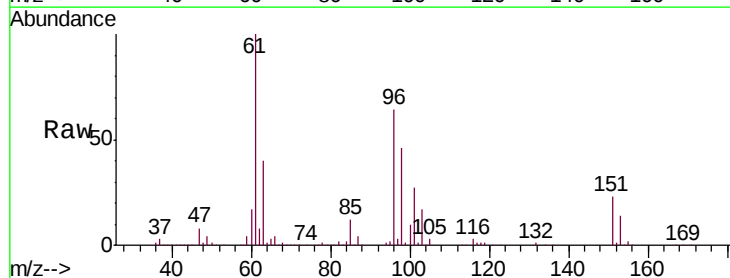
Tgt Ion:101 Resp: 13039
 Ion Ratio Lower Upper
 101 100
 103 73.8 51.8 77.8

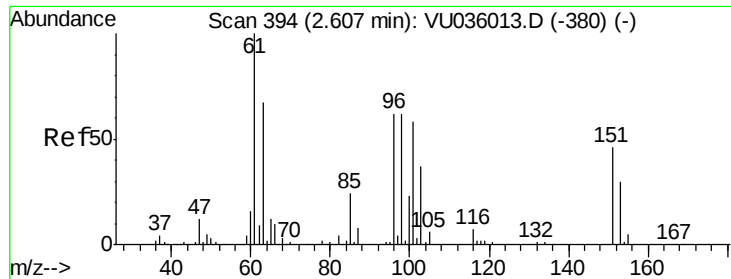


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 9.499 ug/L
 RT: 2.61 min Scan# 394
 Delta R.T. -0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Tgt Ion:101 Resp: 209699
 Ion Ratio Lower Upper
 101 100
 85 43.0 35.5 53.3
 151 81.3 57.5 86.3





#12

1,1-Dichloroethene

Concen: 20.582 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

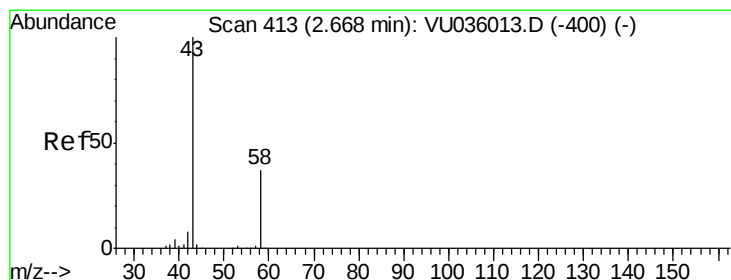
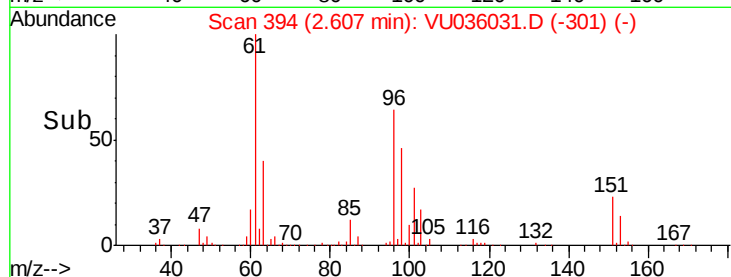
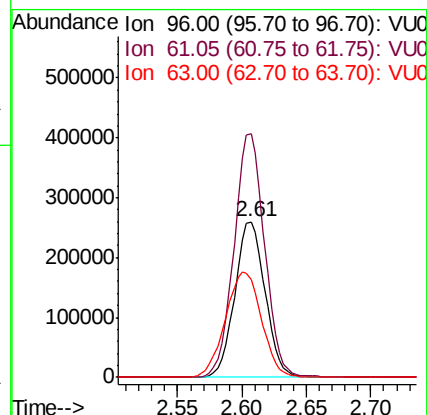
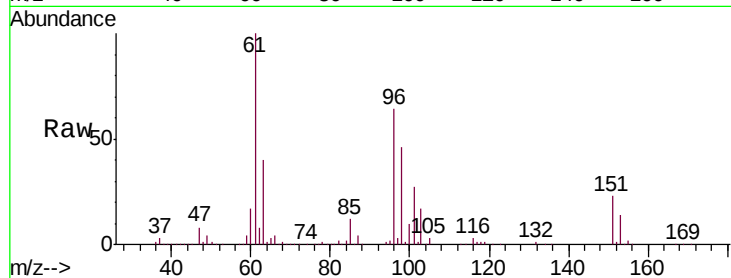
Tgt Ion: 96 Resp: 423674

Ion Ratio Lower Upper

96 100

61 156.3 127.1 236.1

63 62.6 86.0 159.8#



#13

Acetone

Concen: 1.179 ug/L

RT: 2.66 min Scan# 412

Delta R.T. -0.00 min

Lab File: VU036031.D

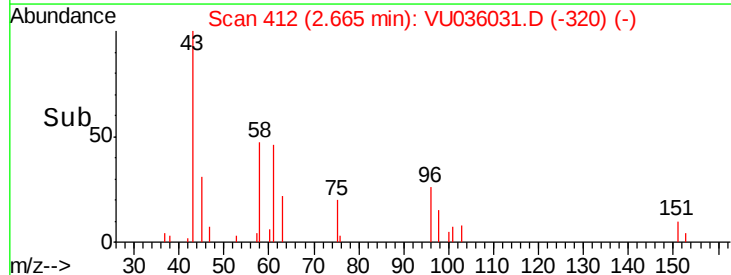
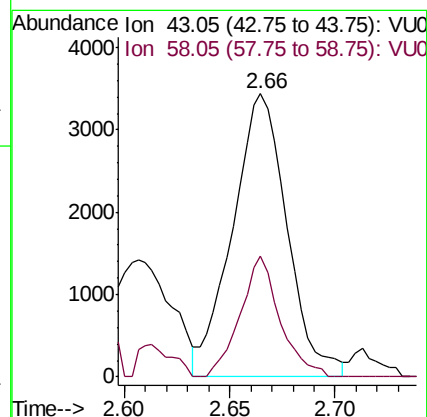
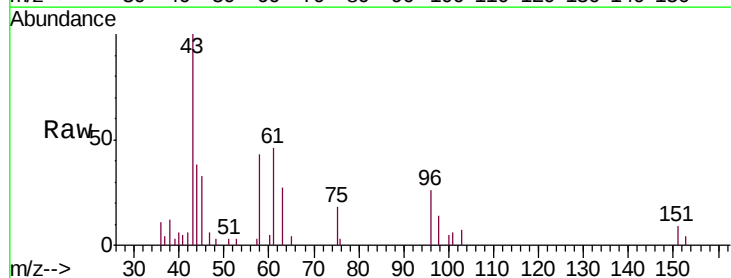
Acq: 06 Dec 2019 18:34

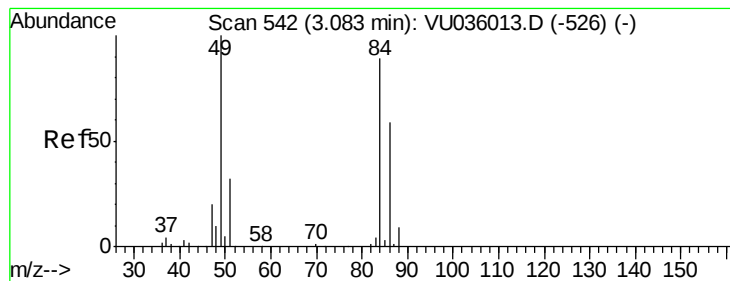
Tgt Ion: 43 Resp: 6179

Ion Ratio Lower Upper

43 100

58 31.1 0.0 68.6





#16

Methylene chloride

Concen: 0.107 ug/L

RT: 3.08 min Scan# 541

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

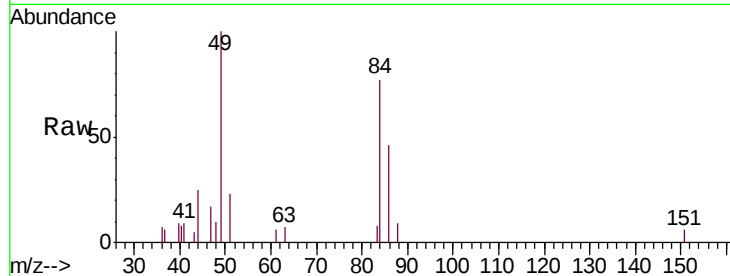
Tgt Ion: 84 Resp: 3414

Ion Ratio Lower Upper

84 100

86 59.8 44.7 82.9

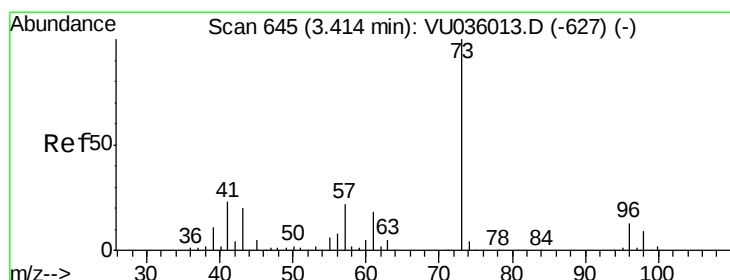
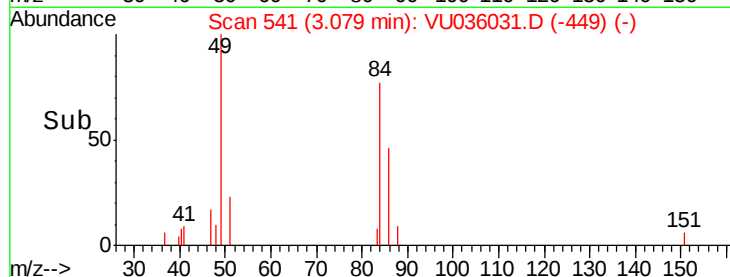
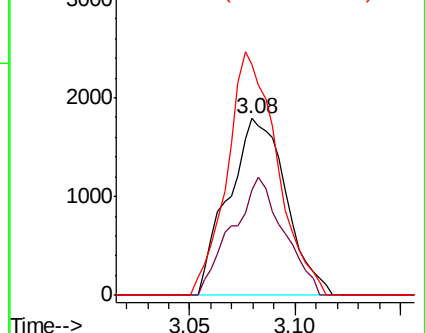
49 130.4 86.2 160.2



Abundance Ion 84.05 (83.75 to 84.75): VU036031.D (-526) (-)

Ion 86.00 (85.70 to 86.70): VU036031.D (-526) (-)

Ion 49.10 (48.80 to 49.80): VU036031.D (-526) (-)



#17

Methyl tert-butyl Ether

Concen: 3.029 ug/L

RT: 3.41 min Scan# 645

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

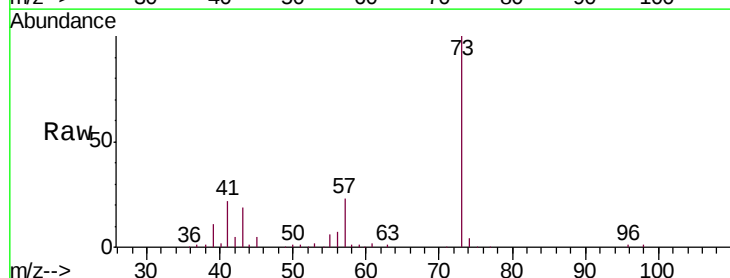
Tgt Ion: 73 Resp: 146068

Ion Ratio Lower Upper

73 100

43 19.3 15.9 23.9

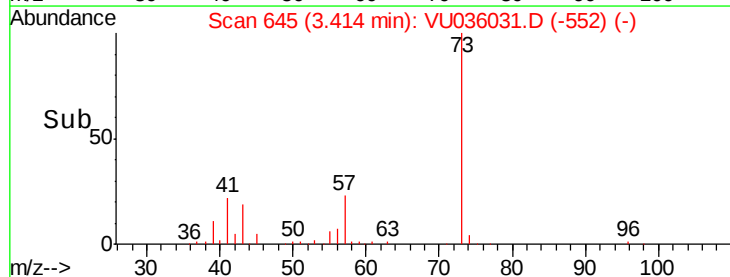
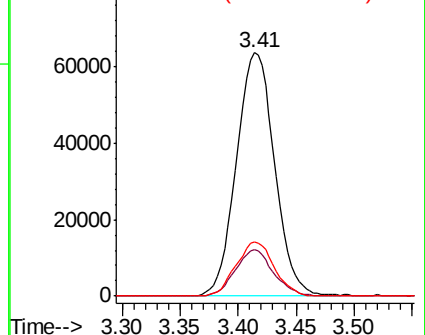
57 22.3 18.8 28.2

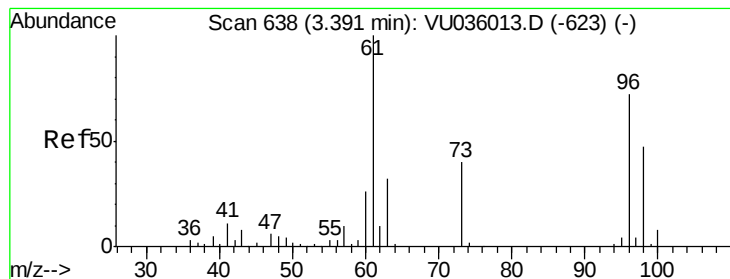


Abundance Ion 73.10 (72.80 to 73.80): VU036031.D (-627) (-)

Ion 43.05 (42.75 to 43.75): VU036031.D (-627) (-)

Ion 57.10 (56.80 to 57.80): VU036031.D (-627) (-)





#18

trans-1,2-Dichloroethene

Concen: 0.234 ug/L

RT: 3.39 min Scan# 638

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

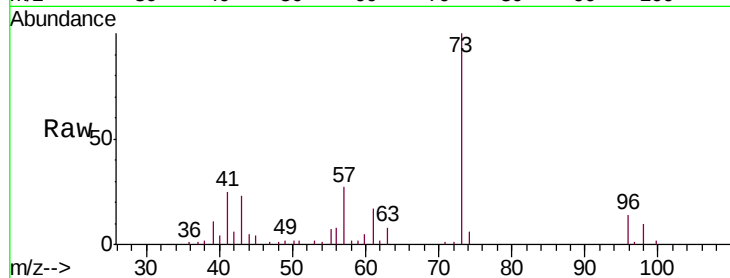
Tgt Ion: 96 Resp: 5100

Ion Ratio Lower Upper

96 100

61 123.0 101.2 187.8

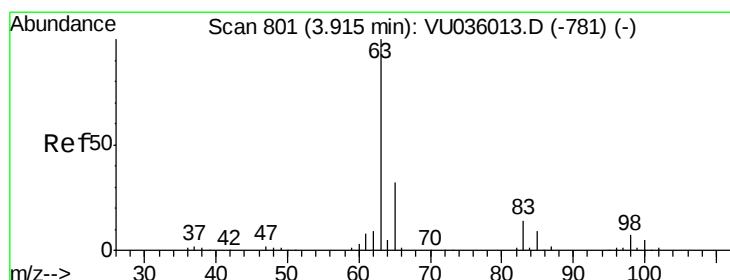
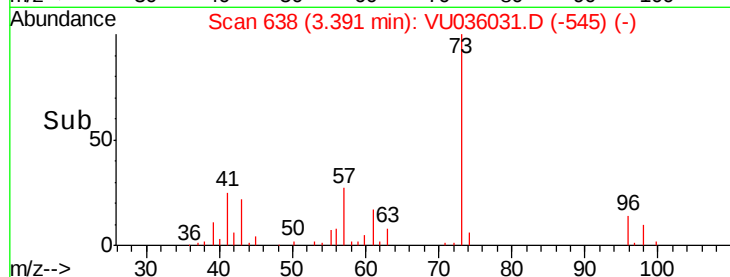
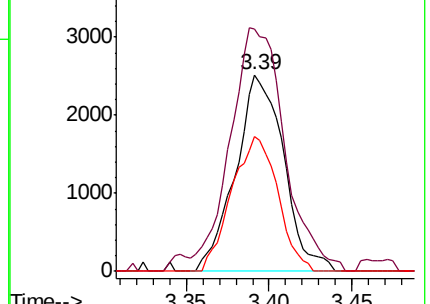
98 68.7 45.0 83.6



Abundance Ion 96.00 (95.70 to 96.70): VU036031.D (-623) (-)

Ion 61.05 (60.75 to 61.75): VU036031.D (-623) (-)

Ion 97.95 (97.65 to 98.65): VU036031.D (-623) (-)



#19

1,1-Dichloroethane

Concen: 4.139 ug/L

RT: 3.92 min Scan# 802

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

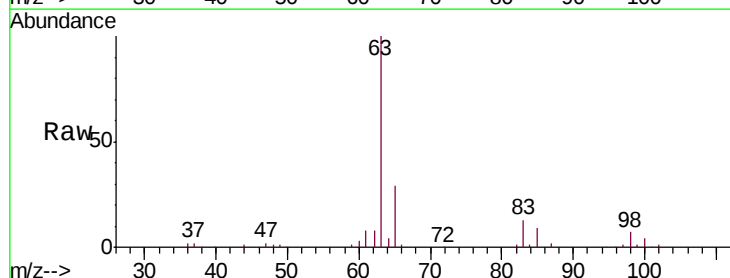
Tgt Ion: 63 Resp: 176358

Ion Ratio Lower Upper

63 100

65 29.4 22.4 41.6

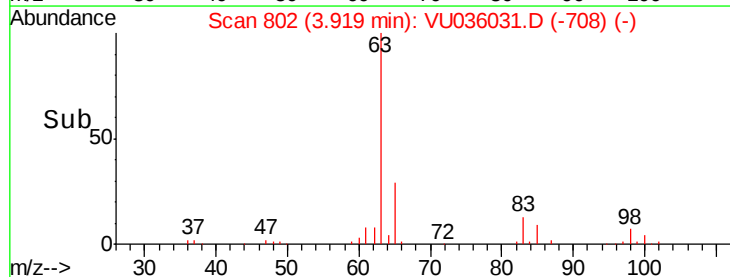
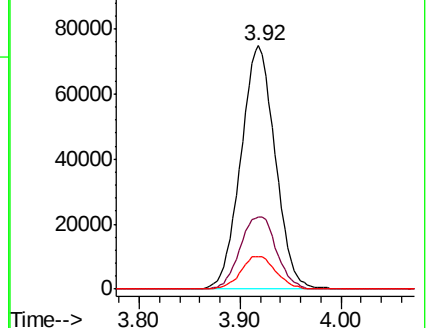
83 13.4 9.8 18.2

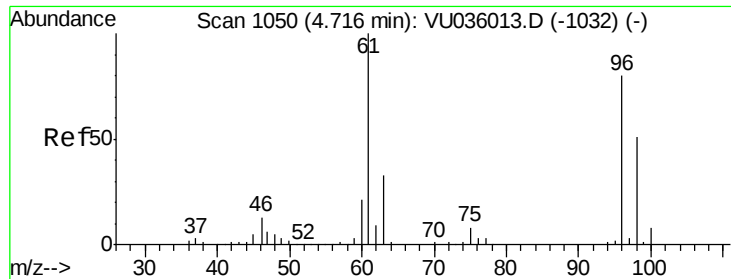


Abundance Ion 63.10 (62.80 to 63.80): VU036031.D (-781) (-)

Ion 65.10 (64.80 to 65.80): VU036031.D (-781) (-)

Ion 83.05 (82.75 to 83.75): VU036031.D (-781) (-)





#22

cis-1,2-Dichloroethene

Concen: 37.096 ug/L

RT: 4.72 min Scan# 1050

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

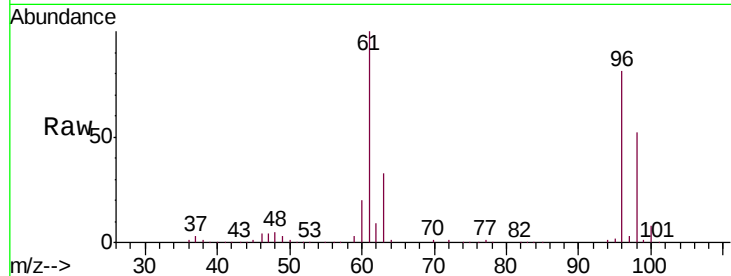
Tgt Ion: 96 Resp: 854239

Ion Ratio Lower Upper

96 100

61 124.0 95.7 177.7

68 0.0 0.0 0.0

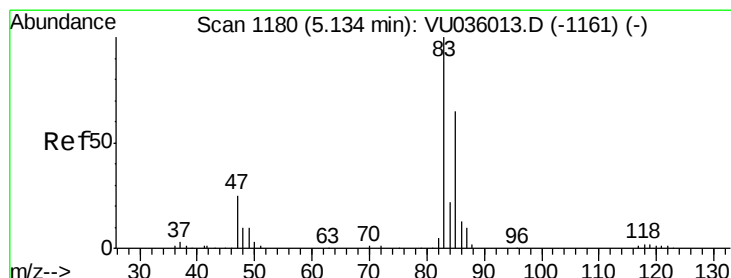
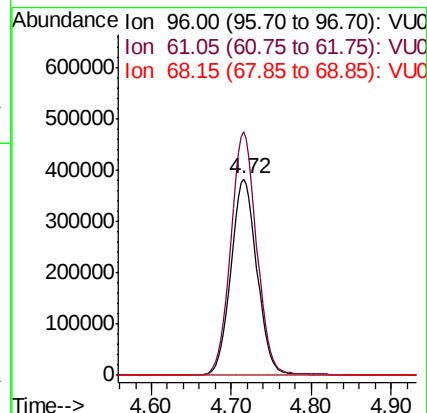
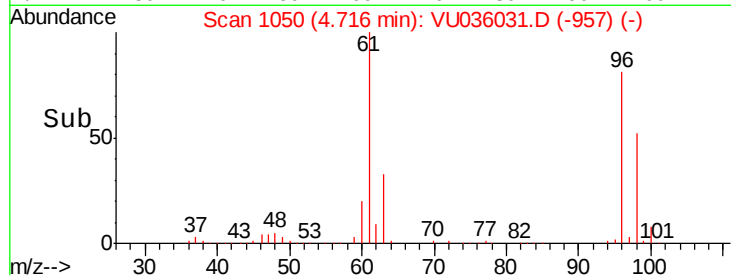


Abundance Ion 96.00 (95.70 to 96.70): VU036013.D (-1032) (-)

Ion 61.05 (60.75 to 61.75): VU036013.D (-1032) (-)

Ion 68.15 (67.85 to 68.85): VU036013.D (-1032) (-)

Time-->



#25

Chloroform

Concen: 0.947 ug/L

RT: 5.14 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU036031.D

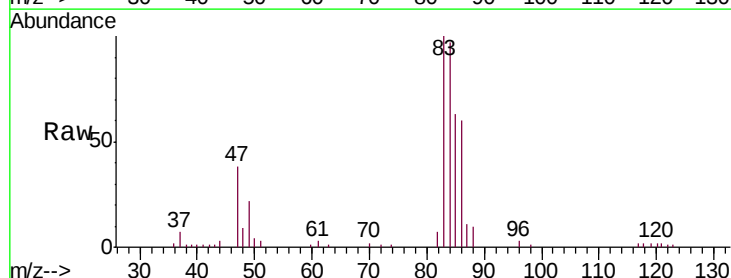
Acq: 06 Dec 2019 18:34

Tgt Ion: 83 Resp: 40696

Ion Ratio Lower Upper

83 100

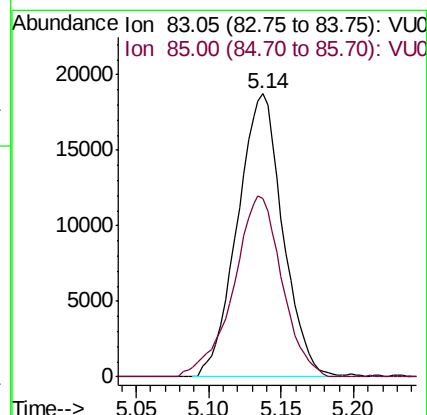
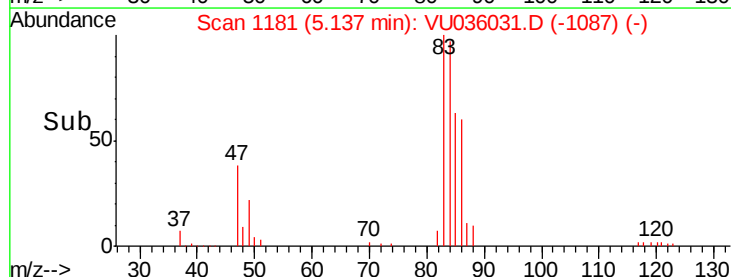
85 63.1 45.4 84.2

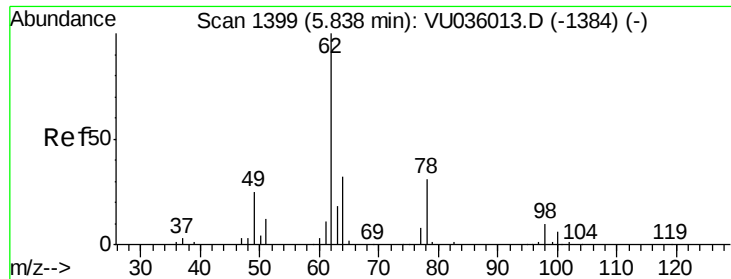


Abundance Ion 83.05 (82.75 to 83.75): VU036013.D (-1161) (-)

Ion 85.00 (84.70 to 85.70): VU036013.D (-1161) (-)

Time-->

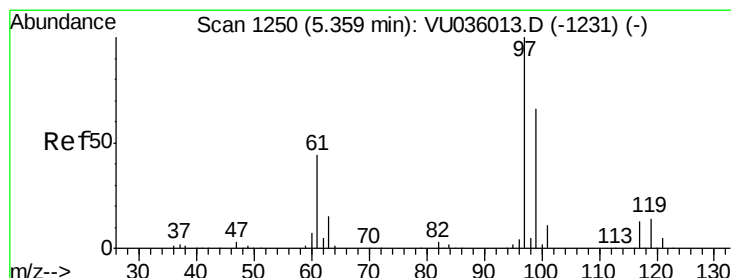
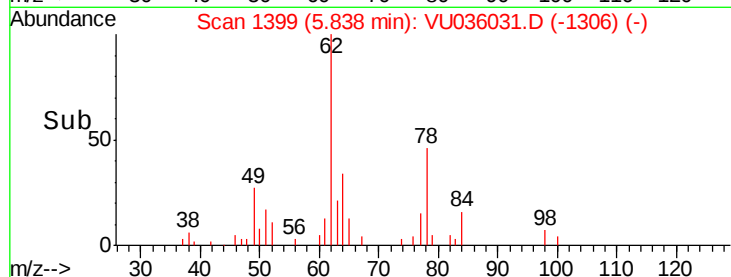
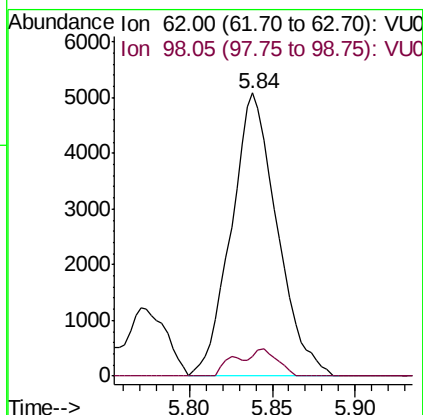
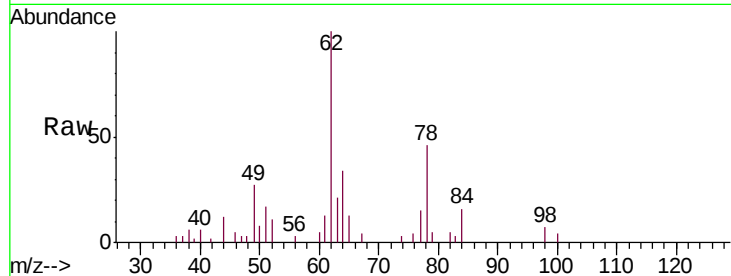




#27
 1,2-Dichloroethane
 Concen: 0.355 ug/L
 RT: 5.84 min Scan# 1399
 Delta R.T. -0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

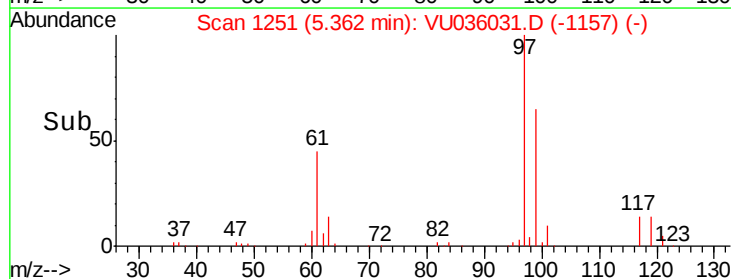
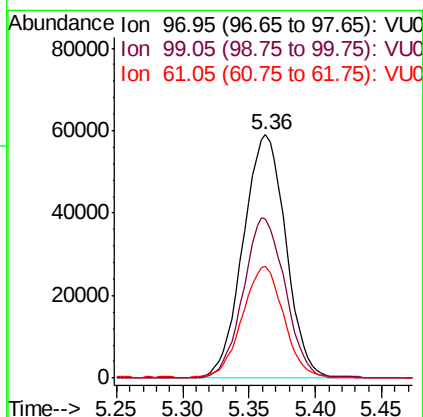
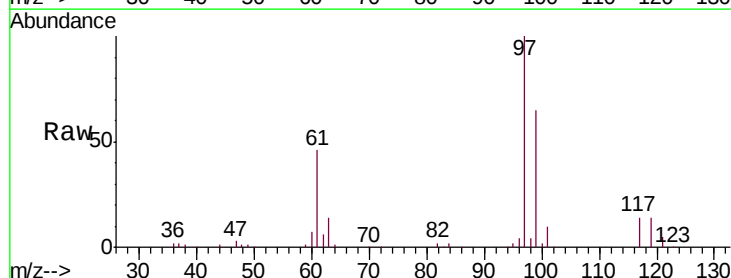
Instrument :
 MSVOA_U
 ClientSampleId :
 BFE40

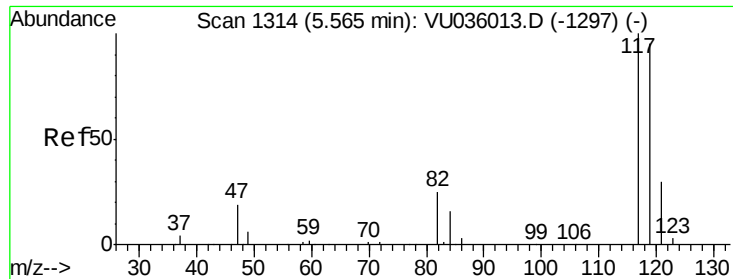
Tgt Ion: 62 Resp: 9754
 Ion Ratio Lower Upper
 62 100
 98 7.0 7.6 11.4#



#29
 1,1,1-Trichloroethane
 Concen: 3.586 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. 0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Tgt Ion: 97 Resp: 132540
 Ion Ratio Lower Upper
 97 100
 99 65.0 51.8 77.8
 61 44.6 37.6 56.4





#31

Carbon tetrachloride

Concen: 0.570 ug/L

RT: 5.36 min Scan# 1250

Delta R.T. -0.21 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

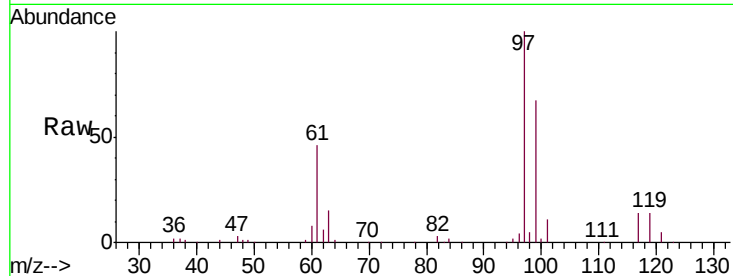
BFE40

Tgt Ion:117 Resp: 18692

Ion Ratio Lower Upper

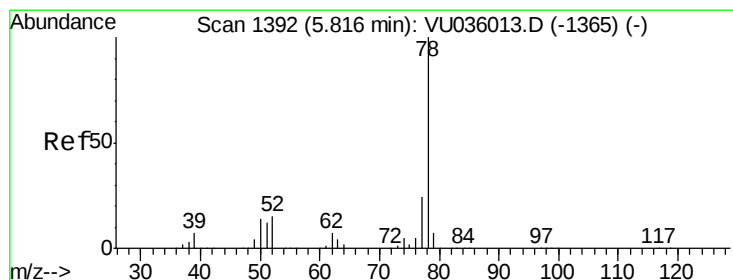
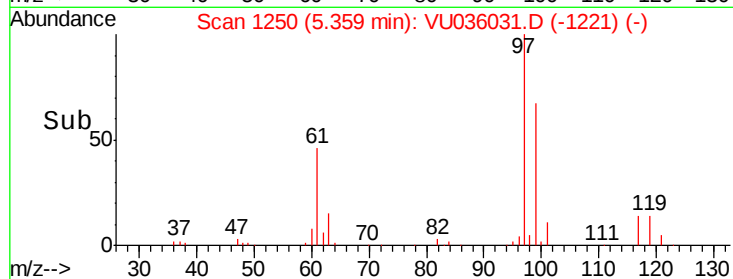
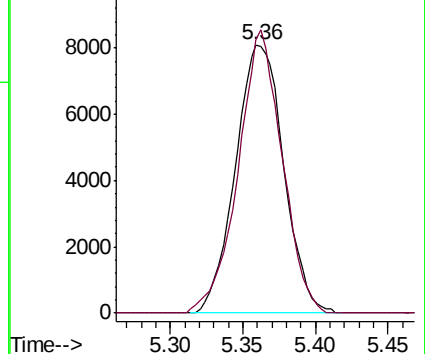
117 100

119 96.1 76.9 115.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.184 ug/L

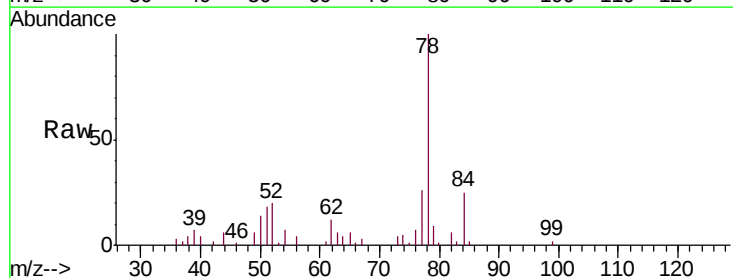
RT: 5.82 min Scan# 1392

Delta R.T. -0.00 min

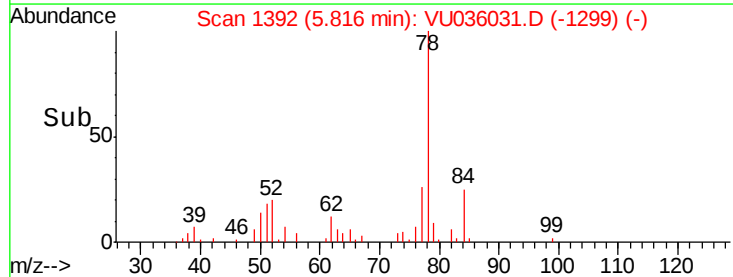
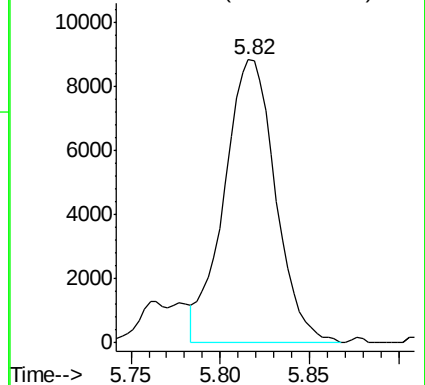
Lab File: VU036031.D

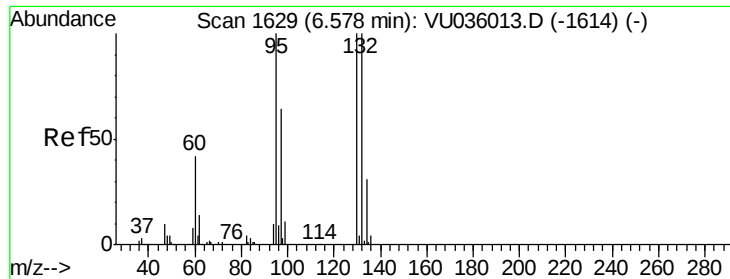
Acq: 06 Dec 2019 18:34

Tgt Ion: 78 Resp: 17720



Abundance Ion 78.10 (77.80 to 78.80): VU0

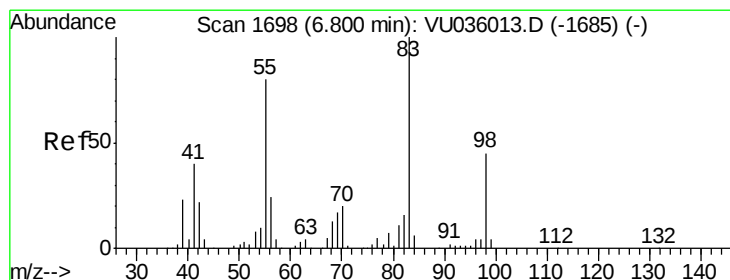
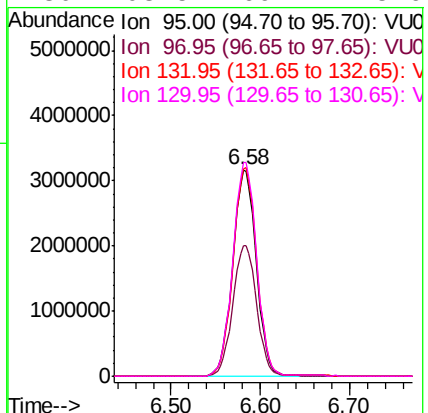
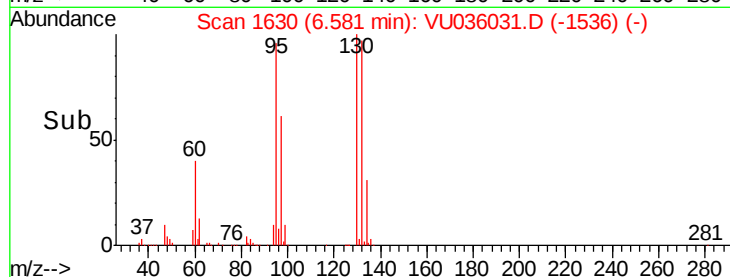
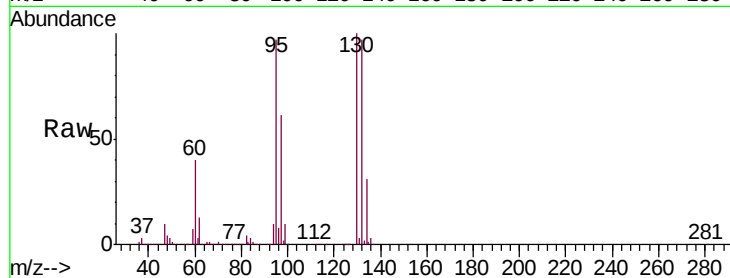




#34
 Trichloroethene
 Concen: 239.105 ug/L
 RT: 6.58 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

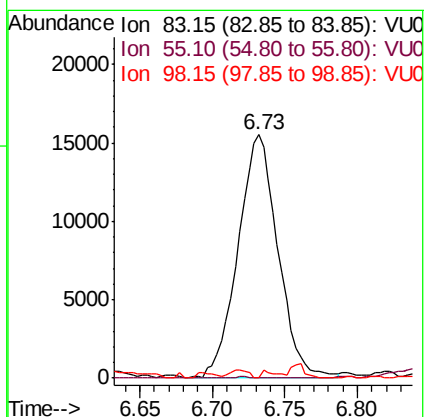
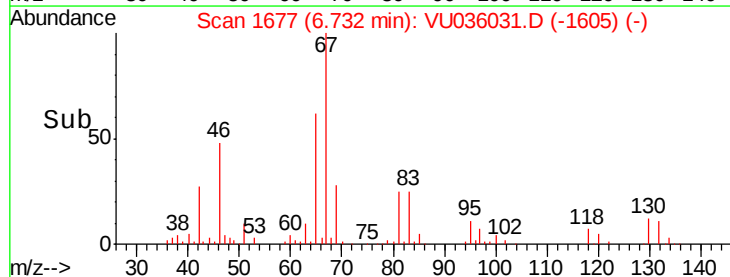
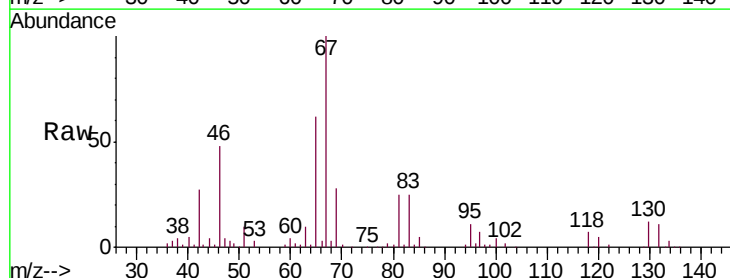
Instrument :
 MSVOA_U
 ClientSampleId :
 BFE40

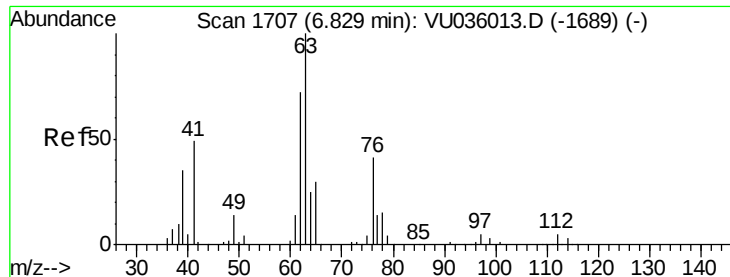
Tgt Ion: 95 Resp: 5811247
 Ion Ratio Lower Upper
 95 100
 97 63.5 46.3 85.9
 132 100.8 65.7 122.1
 130 103.5 69.2 128.6



#35
 Methylcyclohexane
 Concen: 0.816 ug/L
 RT: 6.73 min Scan# 1677
 Delta R.T. -0.07 min
 Lab File: VU036031.D
 Acq: 06 Dec 2019 18:34

Tgt Ion: 83 Resp: 29729
 Ion Ratio Lower Upper
 83 100
 55 0.3 67.4 101.0#
 98 0.0 34.6 52.0#





#37

1,2-Dichloropropane

Concen: 0.483 ug/L

RT: 6.73 min Scan# 1677

Delta R.T. -0.10 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

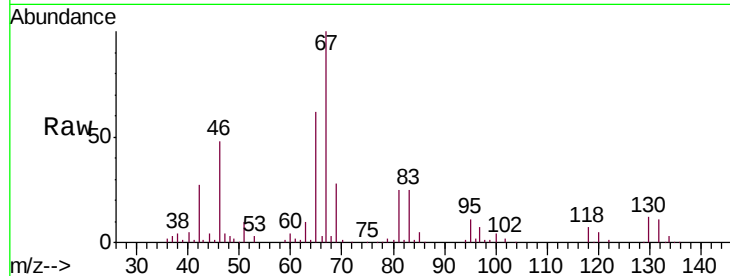
BFE40

Tgt Ion: 63 Resp: 12557

Ion Ratio Lower Upper

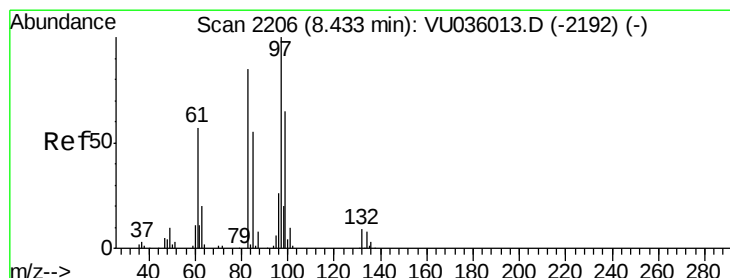
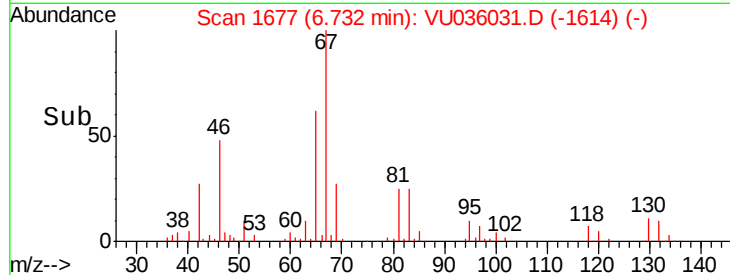
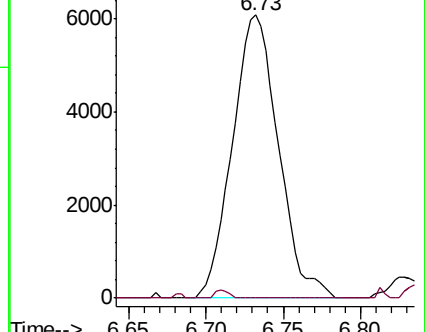
63 100

112 0.9 3.3 4.9#



Abundance Ion 63.10 (62.80 to 63.80): VU036031.D (-1689) (-)

Ion 112.10 (111.80 to 112.80): VU036031.D (-1689) (-)



#45

1,1,2-Trichloroethane

Concen: 0.780 ug/L

RT: 8.44 min Scan# 2207

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Tgt Ion: 97 Resp: 13818

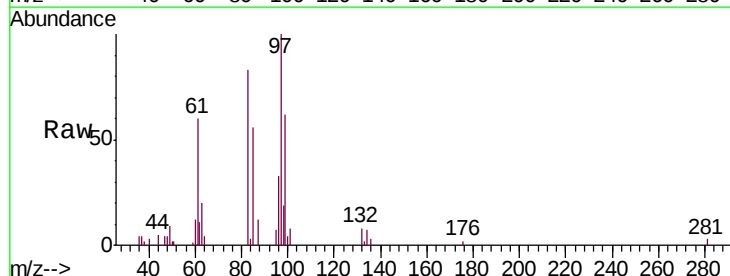
Ion Ratio Lower Upper

97 100

99 62.0 45.0 83.6

83 82.6 62.1 115.3

85 56.0 41.4 77.0

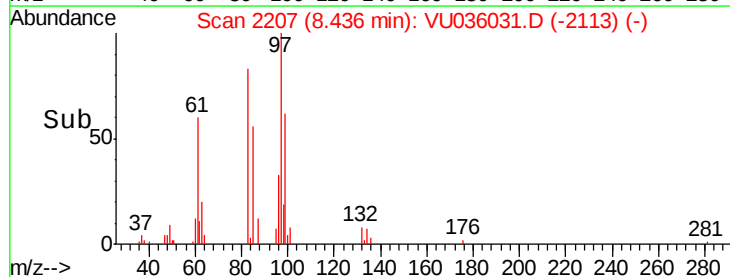
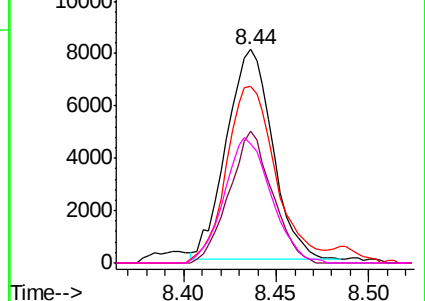


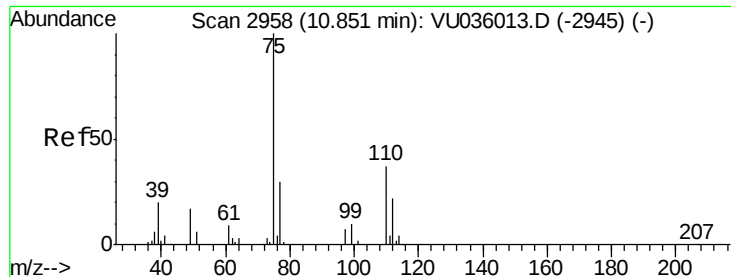
Abundance Ion 96.95 (96.65 to 97.65): VU036031.D (-2192) (-)

Ion 99.05 (98.75 to 99.75): VU036031.D (-2192) (-)

Ion 82.95 (82.65 to 83.65): VU036031.D (-2192) (-)

Ion 85.00 (84.70 to 85.70): VU036031.D (-2192) (-)





#59

1,2,3-Trichloropropane

Concen: 0.621 ug/L

RT: 11.84 min Scan# 3265

Delta R.T. 0.99 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

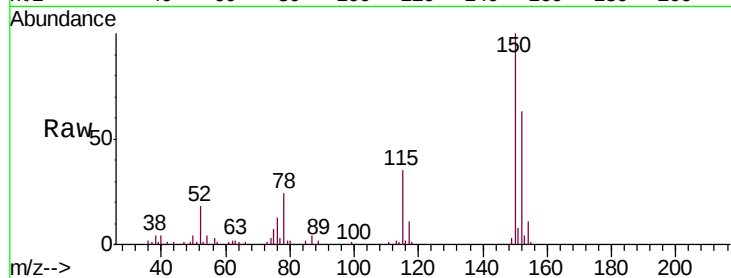
BFE40

Tgt Ion: 75 Resp: 10499

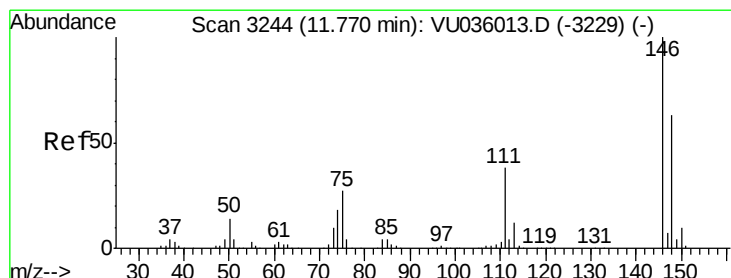
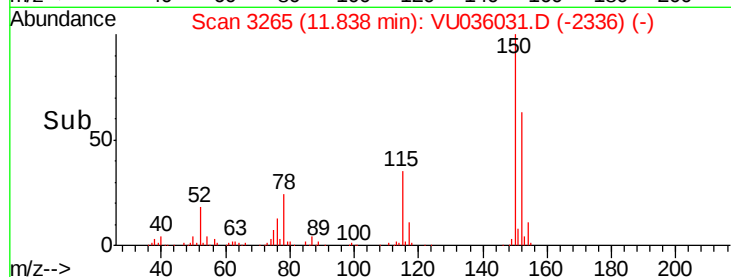
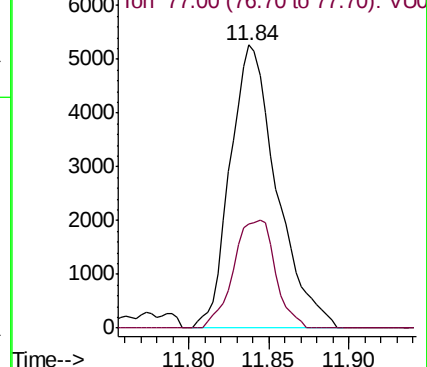
Ion Ratio Lower Upper

75 100

77 33.9 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU036031.D (-2336) (-)



#62

1,3-Dichlorobenzene

Concen: 0.062 ug/L

RT: 11.77 min Scan# 3245

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

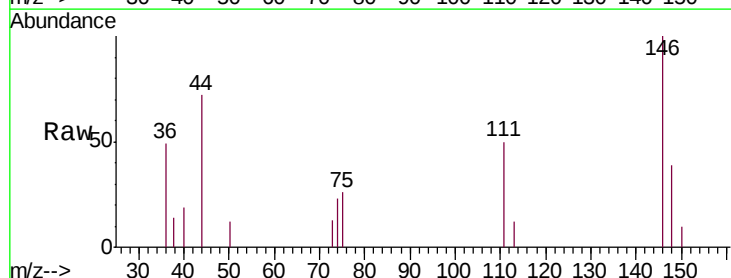
Tgt Ion: 146 Resp: 1833

Ion Ratio Lower Upper

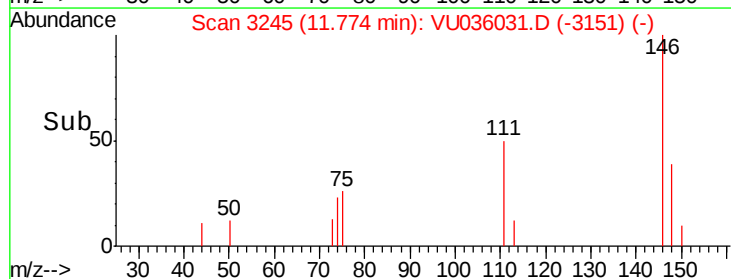
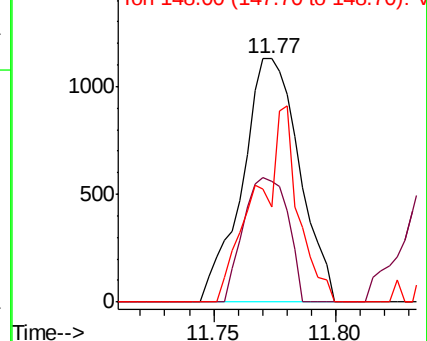
146 100

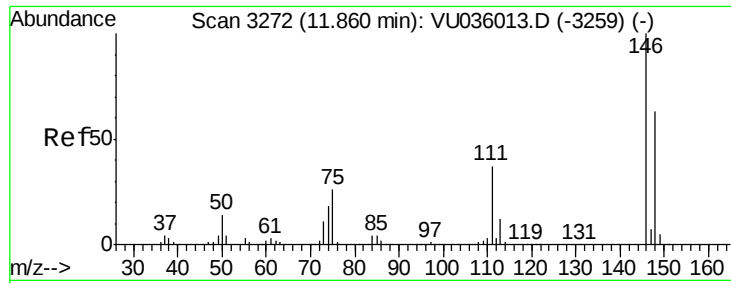
111 49.8 27.6 51.4

148 38.8 43.4 80.6#



Abundance Ion 145.95 (145.65 to 146.65): VU036031.D (-3151) (-)





#63

1,4-Dichlorobenzene

Concen: 0.122 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

Instrument :

MSVOA_U

ClientSampleId :

BFE40

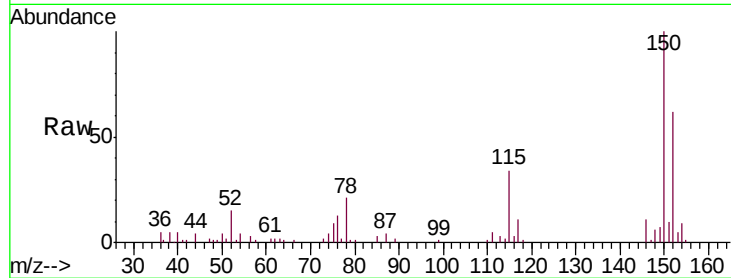
Tgt Ion:146 Resp: 3562

Ion Ratio Lower Upper

146 100

111 45.4 28.5 52.9

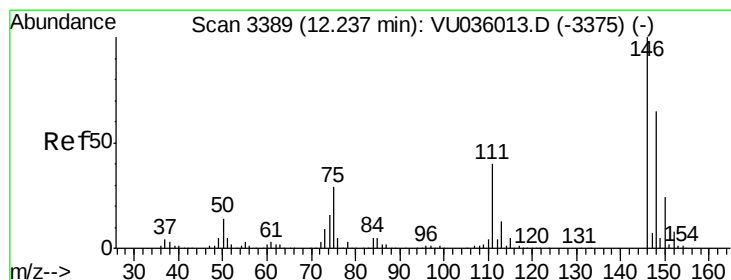
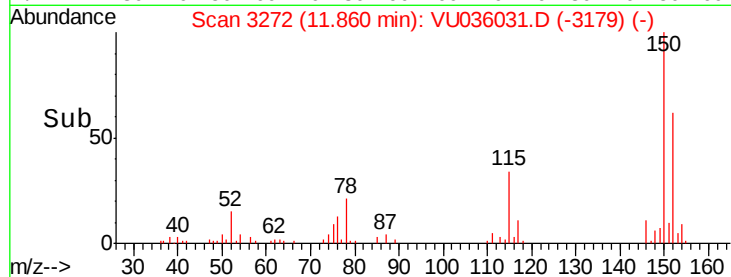
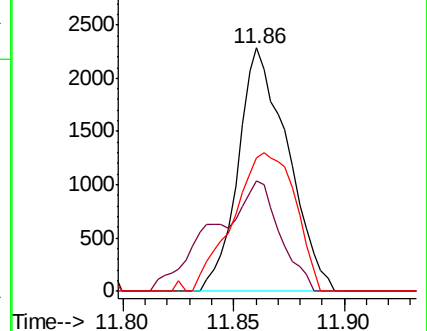
148 55.1 44.4 82.5



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#65

1,2-Dichlorobenzene

Concen: 0.103 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU036031.D

Acq: 06 Dec 2019 18:34

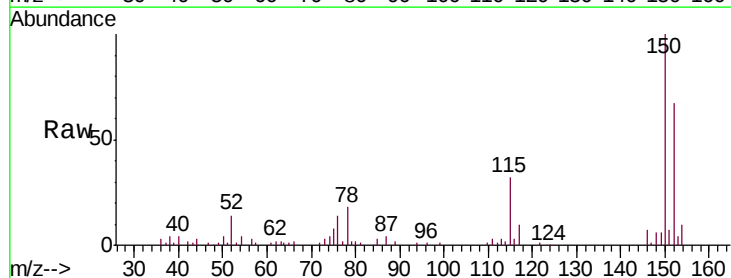
Tgt Ion:146 Resp: 2893

Ion Ratio Lower Upper

146 100

111 45.4 32.6 48.8

148 77.2 50.9 76.3#



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

